

Scaled data based on original data using
LM-79-08 Approved Method: Electrical and Photometric Measurements of Solid-State
Lighting Products

Test Report Prepared for

Cooper Lighting Solutions

(formerly Eaton)

Brand: CORELITE

Report Number: P844981

Luminaire Tested: **SQ4P-PC3-025U-075D-B50-1D-UNV**

Issue Date: 8/14/2023

Test Information

Test Method: LM-79-08
Report Number: P844981
REPORT IS A COMBINATION OF REPORTS P700168 AND P700243
Test Lab: INNOVATION CENTER
Issue Date: 8/14/2023
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: CORELITE
Catalog Number: SQ4P-PC3-025U-075D-B50-1D-UNV
Description: CORELITE SQ4 SUSPENDED LED LUMINAIRE WITH, 250 LUMENS PER FOOT
UPLIGHT, 750 LUMENS PER FOOT DOWNLIGHT

Light Source: -
Ballast/Driver: -

Summary

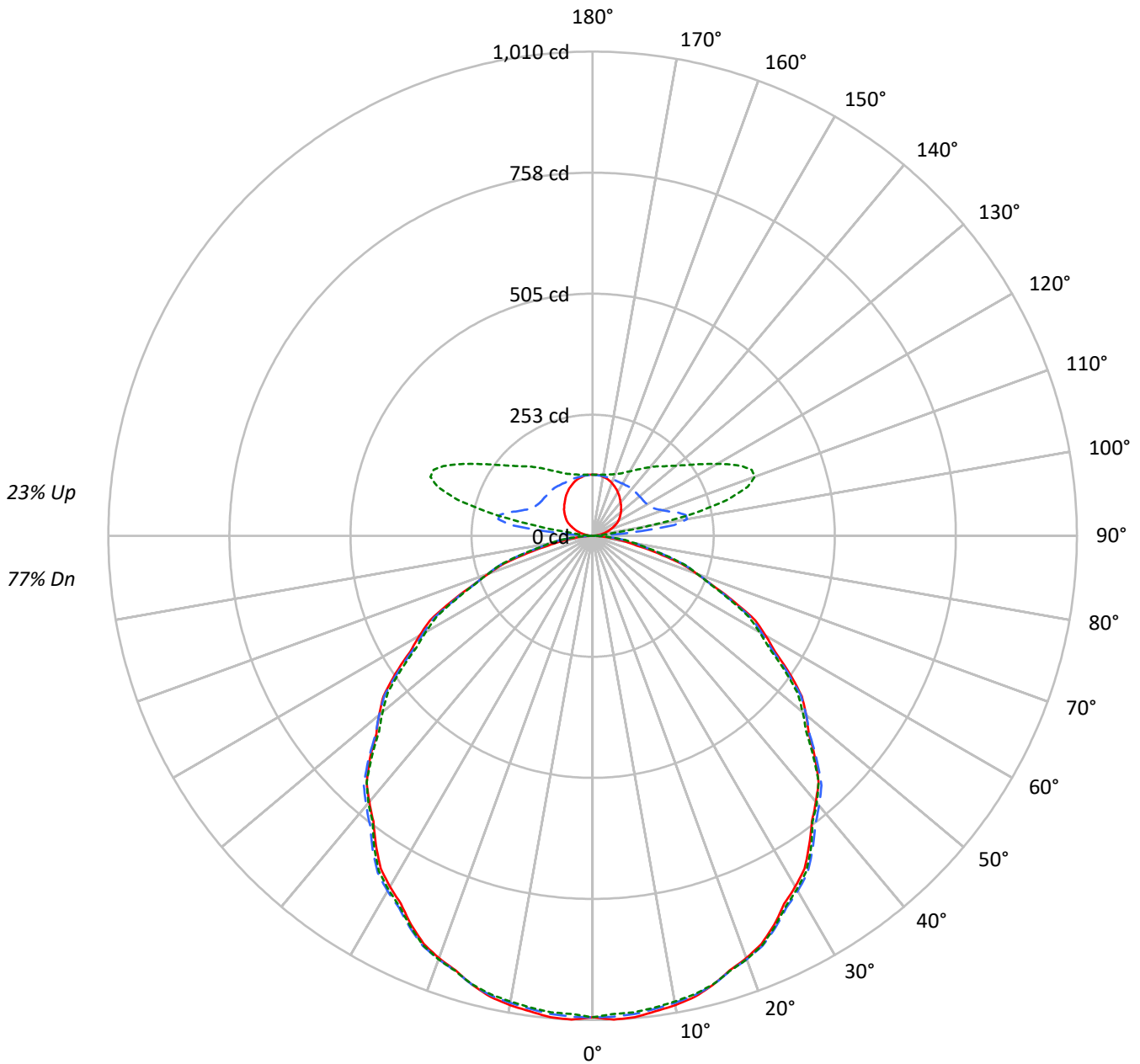
Lumens per Lamp: N/A
Luminaire Lumens: 3569.2 lumens
Efficiency: N/A
Efficacy: 109.5 lumens/watt
Spacing Criteria (0/90/45): 1.26 / 1.26 / 1.37
Luminous Opening: Rectangular (W 0.29' x L: 4' x H: 0')
CIE Type: Semi-Direct

Input Watts (W): 32.6
Input Voltage (V): NR
Input Current (A_{in}): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT

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Luminous Intensity Polar Plot





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COEFFICIENT OF UTILIZATION - ZONAL CAVITY METHOD:

RF	20				20				20				20				20				
RC	80				70				50				30				10			0	
RW	70	50	30	10	70	50	30	10	50	30	10	50	30	10	50	30	10	50	30	10	0
RCR																					
0	114	114	114	114	108	108	108	108	98	98	98	89	89	89	81	81	81	77			77
1	104	99	95	92	99	95	91	88	86	84	81	79	77	75	72	70	68				65
2	95	87	80	75	90	83	77	72	76	71	67	69	66	62	63	60	58				54
3	86	76	69	63	82	73	66	61	67	61	57	61	57	53	56	52	49				46
4	79	68	59	53	75	65	57	51	59	53	48	54	49	45	50	46	42				39
5	73	60	52	46	69	58	50	44	53	47	42	49	43	39	45	40	37				34
6	67	54	46	40	64	52	44	39	48	41	36	44	39	34	41	36	32				30
7	62	49	41	35	59	47	40	34	44	37	32	40	35	30	37	32	29				26
8	58	45	37	31	55	43	36	30	40	33	29	37	31	27	34	29	26				24
9	54	41	33	28	51	39	32	27	37	30	26	34	28	25	31	27	23				21
10	50	38	30	25	48	36	29	25	34	28	23	31	26	22	29	24	21				19

AVERAGE LUMINANCE (cd/sqm):

	0°	45°	90°
0°	9265	9265	9265
5°	9336	9274	9241
10°	9313	9269	9243
15°	9264	9264	9256
20°	9204	9230	9230
25°	9117	9181	9154
30°	9004	9114	9075
35°	8871	9007	8944
40°	8723	8847	8760
45°	8566	8627	8493
50°	8342	8342	8209
55°	8078	7972	7853
60°	7687	7532	7412
65°	7104	6962	6901
70°	6223	6269	6248
75°	5005	5536	5572
80°	3560	4692	4745
85°	2181	3938	3938



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	95.0	2.7
10°-20°	272.7	7.6
20°-30°	413.0	11.6
30°-40°	495.2	13.9
40°-50°	504.9	14.1
50°-60°	440.8	12.3
60°-70°	315.5	8.8
70°-80°	162.5	4.6
80°-90°	41.4	1.2
90°-100°	50.8	1.4
100°-110°	176.7	4.9
110°-120°	171.2	4.8
120°-130°	134.2	3.8
130°-140°	106.3	3.0
140°-150°	82.0	2.3
150°-160°	58.8	1.6
160°-170°	36.0	1.0
170°-180°	12.2	0.3
0°-30°	780.8	21.9
0°-40°	1276.0	35.8
0°-60°	2221.7	62.2
0°-90°	2741.2	76.8
90°-120°	398.6	11.2
90°-150°	721.1	20.2
90°-180°	828.0	23.2
0°-180°	3569.2	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	1004	1004	1004	1004	1004	
5°	1008	998	1001	999	998	96
15°	970	962	970	970	969	273
25°	896	889	902	899	899	412
35°	788	786	800	794	794	493
45°	656	655	661	653	651	505
55°	502	496	496	488	488	448
65°	325	318	319	316	316	322
75°	140	147	155	156	156	152
85°	21	31	37	38	37	28
90°	2	3	3	2	1	2
95°	9	30	86	22	13	9
105°	30	42	186	313	291	31
115°	51	62	138	291	344	51
125°	70	86	128	217	259	62
135°	84	94	128	181	205	65
145°	98	105	127	156	170	61
155°	111	115	125	139	144	51
165°	122	123	126	131	132	34
175°	128	128	127	128	128	12
180°	128	128	128	128	128	



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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	1004.2	1004.2	1004.2	1004.2	1004.2
2.5°	1010.3	1001.4	1004.2	1002.0	998.3
5°	1008.1	997.9	1001.4	998.6	997.8
7.5°	1000.7	990.8	995.4	993.4	992.5
10°	994.1	984.0	989.4	987.5	986.6
12.5°	985.2	975.8	981.9	980.2	979.8
15°	969.9	961.7	969.9	969.9	969.0
17.5°	950.7	943.3	951.9	952.6	951.9
20°	937.4	929.2	940.1	939.2	940.1
22.5°	921.0	914.3	925.9	923.6	924.5
25°	895.6	889.1	901.9	899.2	899.2
27.5°	865.4	860.7	874.8	871.8	871.8
30°	845.2	840.7	855.5	851.8	851.8
32.5°	822.9	819.9	834.0	829.5	829.5
35°	787.6	785.7	799.7	794.1	794.1
37.5°	751.1	749.5	762.2	755.4	753.2
40°	724.3	723.5	734.6	727.3	727.3
42.5°	697.5	696.6	706.4	697.5	697.5
45°	656.5	654.6	661.2	652.7	650.9
47.5°	611.7	609.9	613.9	604.7	603.8
50°	581.2	579.3	581.2	572.7	571.9
52.5°	550.0	546.6	546.9	538.6	538.4
55°	502.2	495.8	495.6	488.2	488.2
57.5°	451.5	443.2	444.0	437.6	436.6
60°	416.6	407.5	408.2	402.6	401.7
62.5°	382.3	371.9	374.0	367.7	367.6
65°	325.4	318.2	318.9	316.1	316.1
67.5°	270.8	264.0	268.9	266.8	266.6
70°	230.7	226.0	232.4	232.4	231.6
72.5°	193.5	193.3	201.2	201.2	201.8
75°	140.4	146.8	155.3	156.3	156.3
77.5°	93.8	105.0	114.4	114.7	114.6
80°	67.0	79.7	88.3	90.3	89.3
82.5°	45.3	58.8	66.1	67.8	67.0
85°	20.6	31.4	37.2	38.2	37.2
87.5°	5.9	12.5	14.9	14.9	13.4
90°	1.9	2.9	2.9	1.9	1.0
92.5°	4.8	14.3	13.3	5.7	4.8
95°	8.6	29.5	85.7	21.9	13.3
97.5°	13.3	33.3	171.4	78.1	41.9
100°	18.1	35.2	199.9	187.5	120.9
102.5°	23.8	38.1	199.0	263.7	217.1
105°	29.5	41.9	185.6	313.3	291.4



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CANDELA DISTRIBUTION (continued):

	0°	22.5°	45°	67.5°	90°
112.5°	45.7	56.2	144.7	315.2	359.0
115°	51.4	61.9	138.0	291.4	343.8
117.5°	57.1	68.5	134.2	269.4	321.9
120°	61.9	74.3	131.4	248.5	300.0
122.5°	65.7	80.0	129.5	231.3	278.1
125°	69.5	85.7	128.5	217.1	259.0
127.5°	73.3	89.5	128.5	206.6	241.8
130°	77.1	91.4	127.6	196.1	227.5
132.5°	80.9	92.3	127.6	188.5	215.2
135°	83.8	94.3	127.6	180.9	204.7
137.5°	87.6	96.2	127.6	174.2	196.1
140°	90.4	99.0	127.6	167.6	186.6
142.5°	94.3	101.9	127.6	160.9	178.0
145°	98.1	104.7	126.6	156.1	169.5
147.5°	101.9	107.6	125.7	151.4	161.8
150°	104.7	110.4	125.7	146.6	155.2
152.5°	108.5	113.3	124.7	141.9	149.5
155°	111.4	115.2	124.7	139.0	143.8
157.5°	114.2	118.1	124.7	136.1	139.9
160°	117.1	120.0	125.7	134.2	137.1
162.5°	120.0	121.9	125.7	132.3	134.2
165°	121.9	122.8	125.7	131.4	132.3
167.5°	123.8	124.7	125.7	130.4	130.4
170°	124.7	125.7	126.6	129.5	129.5
172.5°	126.6	126.6	126.6	128.5	128.5
175°	127.6	127.6	126.6	128.5	127.6
177.5°	127.6	127.6	126.6	128.5	127.6
180°	127.6	127.6	127.6	127.6	127.6



Report Generated By 670246072 / DESKTOP-50001EG





— 0°-180° - - 45°-225° - - - - 90°-270°







107.5°	35.2	46.6	168.5	335.2	339.0
110°	40.0	51.4	155.2	332.4	360.0



(END OF REPORT)